## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Previously Presented) A medical system that can denature a cornea, comprising:

an energy device that can direct energy to a focal point within the cornea at a power level to denature corneal tissue without removing corneal tissue; and,

a movement device that moves the focal point of the energy to denature tissue to have an essentially uniform cross-sectional area through at least a portion of a stroma.

- 2. (Original) The medical device of claim 1, wherein said energy device includes a laser.
- 3. (Original) The medical device of claim 2, wherein said movement device includes a lens and a mechanism for moving a focal point of said lens.
- 4. (Original) The medical device of claim 3, wherein said mechanism includes a stepper motor.
- 5. (Original) The medical device of claim 3, wherein said mechanism includes a solenoid.
- 6. (Original) The medical device of claim 3, wherein said mechanism includes a shaped memory metal.
- 7. (Original) The medical device of claim 3, wherein said movement device includes a feedback sensor.
- 8. (Original) The medical device of claim 7, wherein said feedback sensor includes an optical encoder.

- 9. (Original) The medical device of claim 7, wherein said feedback sensor includes a linear variable differential transformer.
- 10. (Original) The medical device of claim 7, wherein said feedback sensor includes a hall effect sensor.
- 11. (Original) The medical device of claim 7, wherein said feedback sensor includes a proximity sensor.
- 12. (Original) The medical device of claim 1, wherein said energy device is a noncoherent light source.
- 13. (Original) The medical device of claim 12, wherein said movement device includes a lens and a mechanism for moving a focal point of said lens.
- 14. (Original) The medical device of claim 13, wherein said mechanism includes a stepper motor.
- 15. (Original) The medical device of claim 13, wherein said mechanism includes a solenoid.
- 16. (Original) The medical device of claim 13, wherein said mechanism includes a shaped memory metal.
- 17. (Original) The medical device of claim 13, wherein said movement device includes a feedback sensor.
- 18. (Original) The medical device of claim 17, wherein said feedback sensor includes an optical encoder.
- 19. (Original) The medical device of claim 17, wherein said feedback sensor includes a linear variable differential transformer.
- 20. (Original) The medical device of claim 17, wherein said feedback sensor includes a hall effect sensor.

- 21. (Original) The medical device of claim 17, wherein said feedback sensor includes a proximity sensor.
- 22. (Original) The medical device of claim 1, wherein said energy device includes an ultrasonic transducer.
- 23. (Original) The medical device of claim 22, wherein said movement device includes a mechanism for moving said ultrasonic transducer.
- 24. (Original) The medical device of claim 23, wherein said mechanism includes a stepper motor.
- 25. (Original) The medical device of claim 23, wherein said mechanism includes a solenoid.
- 26. (Original) The medical device of claim 23, wherein said mechanism includes a shaped memory metal.
- 27. (Original) The medical device of claim 23, wherein said movement device includes a feedback sensor.
- 28. (Original) The medical device of claim 27, wherein said feedback sensor includes an optical encoder.
- 29. (Original) The medical device of claim 27, wherein said feedback sensor includes a linear variable differential transformer.
- 30. (Original) The medical device of claim 27, wherein said feedback sensor includes a hall effect sensor.
- 31. (Original) The medical device of claim 27, wherein said feedback sensor includes a proximity sensor.

32. (Previously Presented) A medical device that can denature a cornea, comprising: a plurality of energy devices that can each direct energy to a different focal point within the cornea at a power level to denature corneal tissue without removing corneal tissue; and

a controller that can select the energy devices so that the focal point of energy varies through the cornea to denature tissue to have an essentially uniform cross-sectional area through at least a portion of a stroma.

- 33. (Original) The medical device of claim 32, wherein said energy devices include light sources.
- 34. (Original) The medical device of claim 32, wherein said energy devices include ultrasonic sources.
  - 35. (Cancelled)
  - 36. (Previously Presented) A method for denaturing a cornea, comprising:
    directing energy onto a focal point within the cornea at a power level to denature corneal

tissue without removing corneal tissue; and,

varying the focal point of the energy to denature tissue to have an essentially uniform cross-sectional area through at least a portion of a stroma.

- 37. (Original) The method of claim 36, wherein the energy creates a column of denatured tissue within a stroma of the cornea.
  - 38. (Original) The method of claim 36, wherein the energy is light.
  - 39. (Original) The method of claim 36, wherein the energy is ultrasonic.
- 40. (Previously Presented) The medical system of claim 1, wherein said energy device directs energy to a focal point within a stroma layer of the cornea.

- 41. (Previously Presented) The medical system of claim 40, wherein said movement device moves the focal point in a circular pattern about the cornea, wherein the circular pattern has a diameter of approximately 6-8 millimeters.
- 42. (Previously Presented) The medical system of claim 37, wherein the focal points are within a stroma layer of the cornea.
- 43. (Previously Presented) The medical system of claim 42, wherein said controller moves the focal points in a circular pattern about the cornea, wherein the circular pattern has a diameter of approximately 6-8 millimeters.
- 44. (Previously Presented) The method of claim 37, wherein a circular pattern of denatured tissue points are created in the cornea, the circular pattern having a diameter of 6-8 millimeters.
- 45. (Previously Presented) A medical system that can denature a cornea, comprising:

an energy device that can deliver energy into a cornea to denature tissue to have an essentially uniform cross-sectional area through at least a portion of a stroma.

- 46. (Previously Presented) The medical device of claim 45, wherein the denatured profile is a column.
- 47. (Previously Presented) The medical device of claim 45, wherein said energy device includes a laser.
- 48. (Previously Presented) The medical device of claim 45, wherein said energy device is a non-coherent light source.
- 49. (Previously Presented) The medical device of claim 45, wherein said energy device includes an ultrasonic transducer.

- 50. (Previously Presented) The medical system of claim 45, wherein said energy device creates a plurality of denatured spots in a circular pattern about the cornea, wherein the circular pattern has a diameter of approximately 6-8 millimeters.
- 51. (Previously Presented) The medical system of claim 45, wherein said energy device is an electromagnetic device.
- 52. (Previously Presented) The medical system of claim 45, wherein said energy device is a microwave device.
- 53. (Previously Presented) A method for denaturing a cornea, comprising:

  delivering energy into a cornea to denature tissue to have an essentially uniform crosssectional area through at least a portion of a stroma.
- 54. (Previously Presented) The method of claim 53, wherein the denatured profile is a column.
  - 55. (Previously Presented) The method of claim 52, wherein the energy is light.
- 56. (Previously Presented) The method of claim 52, wherein the energy is ultrasonic.
- 57. (Previously Presented) The method of claim 52, wherein the energy is electromagnetic.
- 58. (Previously Presented) The method of claim 52, wherein a circular pattern of denatured areas are created in the cornea, the circular pattern having a diameter of 6-8 millimeters.
- 59. (Previously Presented) The medical system of claim 53, wherein said energy device is a microwave device.